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#5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

WOLFFE et al.

Serial No.: 10/084,826

Group Art Unit: 1645

Filing Date: October 24, 2001

Examiner: unassigned

Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The information listed below may be material to the examination of the above-identified application. All references are of record, or have been submitted in related application serial number 09/844,508 from which the present application claims priority under 35 U.S.C. § 120. Thus, pursuant to C.F.R. § 1.98(d), copies of the references are not included.

This Information Disclosure Statement under 37 CFR § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Respectfully submitted,

Date: June 27, 2002

By: [Signature]
Dahna S. Pasternak
Registration No. 41,411

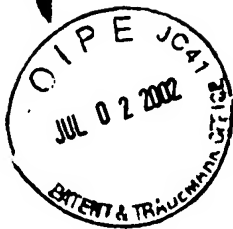
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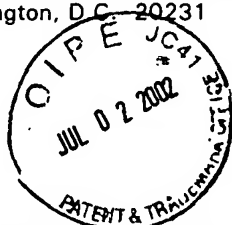
The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 which may be required by this paper, or to credit any overpayment, to Deposit Account No. 18-1648.

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U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
	AA-1	5,972,608	October 26, 1999	Peterson et al.			

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES NO	
	AB-1	WO 95/09233	April 6, 1995	PCT				
	AC-1	WO 97/11972	April 3, 1997	PCT				
	AD-1	WO 00/23464	April 27, 2000	PCT				
	AE-1	WO 00/41566	July 20, 2000	PCT				
	AF-1	WO 00/42219	July 20, 2000	PCT				
	AG-1	WO 01/52620	July 26, 2001	PCT				
	AH-1	WO 01/59094	August 16, 2001	PCT				
	AI-1	WO 01/68807	September 20, 2001	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

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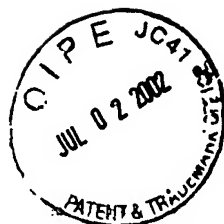
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	CQ-1	Tsukiyama et al., "Purification and Properties of an ATP-Dependent Nucleosome Remodeling Factor," <i>Cell</i> <u>83</u> :1011-1020 (1995)
	CR-1	Tsukiyama et al., "Characterization of the Imitation Switch Subfamily of ATP-Dependent Chromatin-Remodeling Factors in <i>Saccharomyces cerevisiae</i> ," <i>Genes Dev.</i> <u>13</u> :686-697 (1999)
	CS-1	Tyler et al., "The "Dark Side" of Chromatin Remodeling: Repressive Effects on Transcription," <i>Cell</i> <u>99</u> :443-446 (1999)
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	CW-1	Wade et al., "Histone Acetylation: Chromatin in Action," <i>Trends Biochem Sci</i> <u>22</u> :128-132 (1997)
	CX-1	Wallberg et al., "Recruitment of the SWI-SNF Chromatin Remodeling Complex as a Mechanism of Gene Activation by the Glucocorticoid Receptor t1 Activation Domain," <i>Molecular and Cellular Biology</i> <u>20</u> (6):2004-2013 (2000)
	CY-1	White et al., "Ligand-Independent Activation of the Oestrogen Receptor by Mutation of a Conserved Tyrosine," <i>EMBO Journal</i> <u>16</u> (6):1427-1435 (1997)
	CZ-1	Wolffe et al., "Review: Chromatin Structural Features and Targets That Regulate Transcription," <i>Journal of Structural Biology</i> <u>129</u> :102-122 (2000)

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	DA-1	Wolffe et al., "Co-Repressor Complexes and Remodeling Chromatin for Repression," <i>Biochemical Society Transactions</i> <u>28</u> (4):379-386 (2000)
	DB-1	Wolffe et al., "Targeting Chromatin Disruption Transcription Regulators That Acetylate Histones," <i>Cell</i> <u>84</u> :817-819 (1996)
	DC-1	Wong et al., "Determinants of Chromatin Disruption and Transcriptional Regulation Instigated by the Thyroid Hormone Receptor: Hormone-Regulated Chromatin Disruption is Not Sufficient for Transcriptional Activation," <i>EMBO Journal</i> <u>16</u> (11):3158-3171 (1997)
	DD-1	Workman et al., "Alteration of Nucleosome Structure as a Mechanism of Transcriptional Regulation," <i>Ann. Rev. Biochem.</i> <u>67</u> :545-579 (1998)
	DE-1	Xu et al., "Cytosine Methylation Targetted to Pre-Determined Sequences," <i>Nature Genetics</i> <u>17</u> :376-378 (1997)
	DF-1	Yoshinaga et al., "Roles of SWI1, SWI2, and SWI3 Proteins for Transcriptional Enhancement by Steroid Receptors," <i>Science</i> <u>258</u> :1598-1604 (1992)

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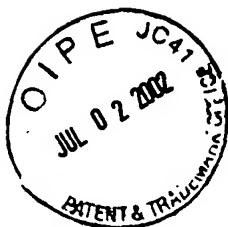
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	AJ-1	Ahringer, "NuRD and SIN 3 Histone Deacetylase Complexes in Development," <i>Trends in Genetics</i> <u>16</u> :351-356 (2000)
	AK-1	Bergel et al., "Structural and Functional Definition of the Human Chitinase Chitin-binding Domain," <i>Journal of Biological Chemistry</i> <u>275</u> (1):514-520 (2000)
	AL-1	Bird et al., "Methylation-Induced Repression-Belts, Braces, and Chromatin," <i>Cell</i> <u>99</u> :451-454 (1999)
	AM-1	Bochar et al., "A Family of Chromatin Remodeling Factors Related Williams Syndrome Transcription Factor," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>97</u> :1038-1043 (2000)
	AN-1	Boyes et al., "Regulation of Activity of the Transcription Factor GATA-1 by Acetylation," <i>Nature</i> <u>396</u> :594-598 (1998)
	AO-1	Cairns et al., "Two Functionally Distinct Forms of the RSC Nucleosome-Remodeling Complex, Containing Essential AT Hook, BAH, and Bromodomains," <i>Molecular Cell</i> <u>4</u> :715-723 (1999)
	AP-1	Cairns, B.R., "Chromatin Remodeling Machines: Similar Motors, Ulterior Motives," <i>Trends Biochem. Sci.</i> <u>23</u> :20-25 (1998)
	AQ-1	Chen et al., "Regulation of Transcription by a Protein Methyltransferase," <i>Science</i> <u>284</u> :2174-2177 (1999)
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	AS-1	Devine et al., "After Chromatin is SWItched-on Can it be RUSHed?," <i>Molecular and Cellular Endocrinology</i> <u>151</u> (1-2):49-56 (1999)

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	AT-1	Deuring et al., "The ISWI Chromatin-Remodeling Protein is Required for Gene Expression and the Maintenance of Higher Order Chromatin Structure <i>In Vivo</i> ," <i>Mol. Cell</i> <u>5</u> :355-365 (2000)
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	AV-1	Grunstein, M., "Histone Acetylation in Chromatin Structure and Transcription," <i>Nature</i> <u>389</u> :349-352 (1997)
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	AY-1	Hartzog et al., "Nucleosomes and Transcription: Recent Lessons from Genetics," <i>Curr. Opin. Genet. Devel.</i> <u>7</u> :192-198 (1997)
	AZ-1	Herrera et al., "Specific Acetylation of Chromosomal Protein HMG-17 by PCAF Alters Its Interaction with Nucleosomes," <i>Molecular and Cellular Biology</i> <u>19</u> (5):3466-3473 (1999)
	BA-1	Holstege et al., "Dissecting the Regulatory Circuitry of a Eukaryotic Genome," <i>Cell</i> <u>95</u> :717-728 (1998)
	BB-1	Imhof et al., "Acetylation of General Transcription Factors by Histone Acetyltransferases," <i>Current Biology</i> <u>7</u> :689-692 (1997)

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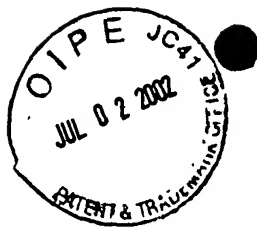
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	BC-1	Jacobson et al., "Structure and Function of a Human TAF _{II} 250 Double Bromodomain Module," <i>Science</i> <u>288</u> :1422-1425 (2000)
	BD-1	Kadam et al., "Functional Selectivity of Recombinant Mammalian SWI/SNF Subunits," <i>Genes & Development</i> <u>14</u> :2441-2451 (2000)
	BE-1	Kadonaga, J.T., "Eukaryotic Transcription: An Interlaced Network of Transcription Factors and Chromatin-Modifying Machines," <i>Cell</i> <u>92</u> :307-313 (1998)
	BF-1	Kehle et al., "dMi-2, Hunchback-Interacting Protein that Functions in <i>Polycomb</i> Repression," <i>Science</i> <u>282</u> :1897-1900 (1998)
	BG-1	Kim et al., "Hybrid Restriction Enzymes: Zinc Finger Fusions to <i>Fok</i> I Cleavage Domain," <i>PNAS</i> <u>93</u> (3):1156-1160 (1996)
	BH-1	Kingston et al., "ATP-Dependent Remodeling and Acetylation as Regulators of Chromatin Fluidity," <i>Genes & Development</i> <u>13</u> :2339-2352 (1999)
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	BJ-1	Knoepfler et al., "Sin Meets NuRD and Other Tails of Repression," <i>Cell</i> <u>99</u> :447-450 (1999)
	BK-1	Kornberg et al., "Twenty-Five Years of the Nucleosome, Fundamental Particle of the Eukaryote Chromosome," <i>Cell</i> <u>98</u> :285-294 (1999)
	BL-1	Kouzarides, T., "Histone Acetylases and Deacetylases in Cell Proliferation," <i>Current Opin. Genet. Devel.</i> <u>9</u> :40-48 (1999)

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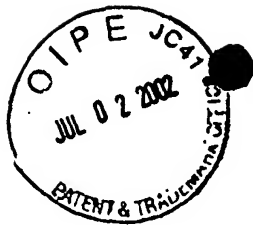
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	BM-1	Kuo et al., "Roles of Histone Acetyltransferases and Deacetylases in Gene Regulation," <i>BioEssays</i> <u>20</u> :615-626 (1998)
	BN-1	Laurent et al., "Functional Interdependence of the Yeast SNF2, SNF5, and SNF6 Proteins in Transcriptional Activation," <i>PNAS</i> <u>88</u> :2687-2691 (1991)
	BO-1	LeRoy et al., "Requirement of RSF and FACT for Transcription of Chromatin Templates <i>in Vitro</i> ," <i>Science</i> <u>282</u> :1900-1904 (1998)
	BP-1	McDowell et al., "Localization of a Putative Transcriptional Regulator (ATRX) at Pericentromeric Heterochromatin and the Short Arms of Acrocentric Chromosomes," <i>PNAS</i> <u>96</u> :13983-13988 (1999)
	BQ-1	Miller et al., "Repetitive Zinc-Binding Domains in the Protein Transcription Factor IIIA From <i>Xenopus</i> Oocytes," <i>EMBO J.</i> <u>4</u> :1609-1614 (1985)
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	BV-1	Murphy et al., "Human SWI-SNF Component BRG1 Represses Transcription of the <i>c-fos</i> Gene," <i>Molecular and Cellular Biology</i> <u>19</u> (4):2724-2733 (1999)

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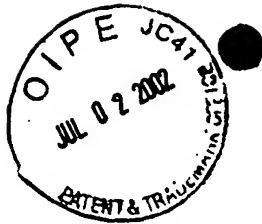
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	BW-1	Näär et al., "Composite Co-Activator ARC Mediates Chromatin-Directed Transcriptional Activation," <i>Nature</i> <u>398</u> :828-832 (1999)
	BX-1	Neely et al., "Activation Domain-Mediated Targeting of the SWI/SNF Complex to Promoters Stimulates Transcription from Nucleosome Arrays," <i>Molecular Cell</i> <u>4</u> :649-655 (1999)
	BY-1	Nielsen et al., "Rb Targets Histone H3 Methylation and HP1 to Promoters," <i>Nature</i> <u>412</u> :561-565 (2001)
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	CC-1	Peterson et al., "Recruitment of Chromatin Remodeling Machines," <i>Journal of Cellular Biochemistry</i> <u>78</u> :179-185 (2000);
	CD-1	Picketts et al., "ATRX Encodes a Novel Member of the SNF2 Family of Proteins: Mutations Point to a Common Mechanism Underlying the ATR-X Syndrome," <i>Human Molecular Genetics</i> <u>5</u> (12):1899-1907 (1996)
	CE-1	Rachez et al., "Ligand-Dependent Transcription Activation by Nuclear Receptors Requires the DRIP Complex," <i>Nature</i> <u>398</u> :824-828 (1999)
	CF-1	Rea et al., Regulation of Chromatin Structure by Site-Specific Histone H3 Methyltransferases," <i>Nature</i> <u>406</u> :593-599 (2000)

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	CG-1	Rhodes et al., "Zinc Fingers," <i>Scientific American</i> <u>268</u> (2):56-65 (1993)
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